

STANDARD EQUIPMENT

ENGINE AND RELATED ITEMS:

- Air cleaner, double element, dry
- Variable speed cooling fan, with fan guard
- Engine, Komatsu SAA6D170E-5

ELECTRICAL SYSTEM:

- Alternator, 60 amp, 24 V
- Batteries, 220 Ah, 2 x 12 V
- Starting motors, 11kW x 2
- Working lights-2 boom, 2 cab top front, 1 cab bottom, 1 cab RH(Step light with timer)
- Auto decelerator

UNDERCARRIAGE:

- 700 mm 28" double grouser
- 8 track/3 carrier rollers (each side)
- Hydraulic track adjusters (each side)
- Track guiding guard (each side)

GUARDS AND COVERS:

- Dust-proof net for radiator and oil cooler
- Pump/engine room partition wall
- Travel motor guards
- Revolving frame under cover (Heavy-duty)

OPERATOR ENVIRONMENT:

- Damper mount, all-weather, sound-suppressed cab with tinted safety glass windows, lockable door, intermittent window wiper and washer, foomat, cigarette lighter and ashtray
- Instrument panel with electronic display/monitor system, electronically-controlled throttle dial, electric service meter, gauges (coolant temperature, hydraulic temperature and fuel level), caution lights (electric charge, engine oil pressure, and air cleaner clogging), indicator lights (engine preheating and swing lock light) level check lights (coolant, engine oil, and hydraulic oil level), self-diagnostic system with trouble data memory
- Rearview mirrors, left and right
- Seat, fully adjustable with suspension
- Cab with fixed front window

OPTIONAL EQUIPMENT

- Alternator, 90 Amp, 24 V
- Arms (Backhoe):
 - 3400mm 11'2" arm assembly
 - 3400mm 11'2" HD arm assembly
 - 3400mm 11'2" SP arm assembly
 - 4500mm 14'9" arm assembly
 - 4500mm 14'9" HD arm assembly
 - 5700mm 18'8" arm assembly
- Arms (Loading shovel):
 - 3800mm 12'6" arm assembly
- Auto air conditioner
- Automatic grease system, Lincoln 18 ltr
- Booms (Backhoe):
 - 7800mm 25'7" SP boom assembly
 - 8100mm 29'10" boom assembly
- Booms (Loading shovel):
 - 5300mm 17'5" boom assembly

HYDRAULIC CONTROLS:

- Fully hydraulic, with Electronic Open-Center Load-Sensing (EOLSS) and engine speed sensing (pump and engine mutual control system)
- One gear pump for control circuit
- Two axial piston motors for swing with single-stage relief valve
- One axial piston motor per track for travel with counter balance valve
- Three variable capacity piston pumps (2 Main, 1 Swing)
- Three control valves, 5+4+4 spools (boom, arm, bucket, swing, and travel)
- Control levers, wrist control levers for arm, boom, bucket, and swing with PPC system
- Control levers and pedals for steering and travel with PPC system
- Oil cooler
- In-line high pressure filters
- Shockless boom control
- Two-mode setting for boom

DRIVE AND BRAKE SYSTEM:

- Brakes, hydraulic lock travel brakes, oil disc parking
- Hydrostatic two travel speed system with planetary double reduction final drive

OTHER STANDARD EQUIPMENT:

- Automatic swing holding brake
- Corrosion resister
- Counterweight, 18000 kg 39,680 lb
- Horn, air
- Marks and plates, English
- Paint, Komatsu standard
- Vandalism protection locks
- Wide catwalk
- Large handrails
- One-touch engine oil drainage
- PM tune-up service connector
- Travel alarm
- Rear reflector
- Anti-slip plates

- Cab with pull-up type front window
- Communication system for VHMS (Orbcomm)
- General tool kit
- Grease gun, air pump
- Heater
- Interconnected horn and flashing light
- Radio AM/FM
- Seat belt 78 mm 3"
- Shoes:
 - 1000 mm 39.4" double grouser
- Spare parts for first service
- Track roller guard (full length)
- Track frame undercover (center)
- Vehicle Health Monitoring System (VHMS)

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Printed in Japan 200910 IP.As(05)

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CEN00102-02

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KOMATSU®

PC1250 / 1250SP BACKHOE
PC1250₈ LOADING SHOVEL

ecot3

PC
1250



Photo may include optional equipment.

HYDRAULIC EXCAVATOR

HORSEPOWER
Gross:514 kW 688 HP @ 1800 rpm
Net:502 kW 672 HP @ 1800 rpm

OPERATING WEIGHT
Backhoe:106500–110700 kg
234,790–244,050 lb
Loading shovel:110900 kg
244,490 lb

WALK-AROUND

Productivity Features

- **Heavy Lift Mode**
The heavy lift mode increases lifting force by 10%.
- **Large Digging Force**
High operation efficiency with large digging force for severe applications.
- **Two-mode Setting for Boom**
Switch selection allows either powerful digging or smooth boom operation.
- **Twin Swing Motor System** provides excellent swing performance, even on slopes.
- **Large Drawbar Pull and Steering Force** provide excellent mobility.
- **Swing Priority Mode**
The swing priority mode improves efficiency for loading dump trucks at 90° or 180°.
- **Shockless Boom**
Switch selection reduces chassis vibration after sudden stops.

See page 5.

Excellent Reliability and Durability

- **Strengthened Quarry Bucket Provided Outstanding Wear-resistance (optional)**
- **KMAX Bucket Teeth** offer superior penetration and long-term sharpness.
- **Fuel Pre-filter** with water separator equipped as standard.
- **O-ring Face Seals**, which have excellent sealing performance, are used for the hydraulic hoses.
- **High-pressure In-line Filtration**
The cool-running hydraulic system is protected with the most extensive filtration system available, including a high pressure in-line filter for each main pump.

Easy Maintenance

- **Easy Cleaning of Cooling Unit**
Fan reverse-rotation function facilitates clogged radiator cleaning.
- **Centralized Arrangement of Engine Checkpoints**
- **Anti-slip Plates** for improved foot traction
- **Large Handrail, Step and Catwalk** provide easy access to the engine and hydraulic equipment.

See page 10.

- **Highly Reliable Electronic Devices**
Exclusively designed electronic devices have passed severe testing.
 - Controllers • Sensors • Connectors
 - Heat resistant wiring • Circuit breaker
- **Boom Foot Hoses** are arranged under the boom foot, improving hose life and safety.

See page 6.

Ecology and Economy Features

- **Komatsu SAA6D170E-5 Engine Meets Tier 3 Emissions Certified.**
 - World's first cooled EGR system with bypass-assist type electronically controlled venturi
 - Offers high power and low fuel consumption, while conforming to Tier 3 emission certified.
 - Reduces NOx emission approximately 40%.
 - Equipped with an electronically controlled variable speed fan.

- **Economy Mode Four-level Setting**
Enables operator to select the appropriate Economy mode level to match production requirement with lowest fuel consumption.
- **Reduction of Ambient Noise**
 - Electronically controlled variable speed fan drive
 - Large hybrid fan
 - Glasswool-furnished low-noise muffler and noise reducing cover around the muffler

See page 4.

HORSEPOWER
Gross:514 kW 688 HP @ 1800 rpm
Net:502 kW 672 HP @ 1800 rpm

OPERATING WEIGHT
Backhoe
106500–110700 kg
234,790–240,050 lb
Loading shovel
110900 kg
244,490 lb



Photo may include optional equipment.

Working Environment

- **Large Comfortable Cab**
 - Low noise and vibration with cab damper mounting
 - Large-capacity air conditioner (optional)
 - Pressurized cab prevents external dust from entering
 - OPG top guard level 2 (by ISO 10262 standard) capable with optional bolt-on top guard.

See pages 8, 9.



Advanced Monitor Features

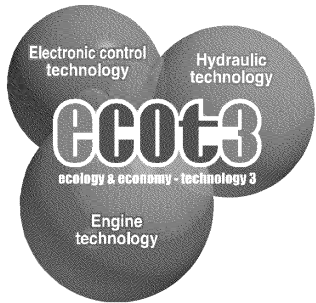
- Machine condition can be checked with Equipment Management Monitoring System (EMMS).
- Two working modes combine with heavy lift mode for maximum productivity.

See page 11.

See page 5.

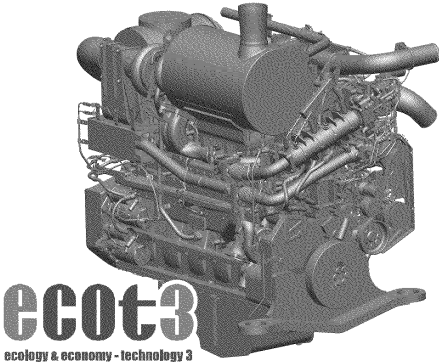
PRODUCTIVITY & ECOLOGY FEATURES

Komatsu Technology

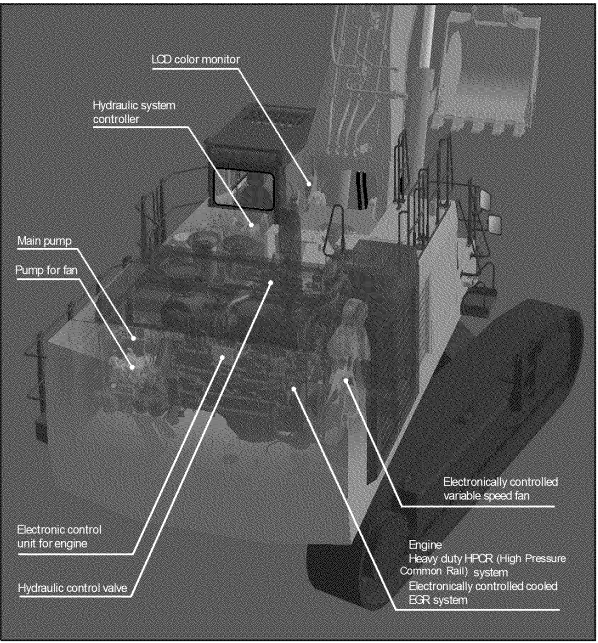


Komatsu develops and produces all major components, such as engines, electronics and hydraulic components, in house. With this "Komatsu Technology," and adding customer feedback, Komatsu is achieving great advancements in technology. To achieve both high levels of productivity and economical performance, Komatsu has developed the main components with a total control system. The result is a new generation of high performance and environment friendly excavators.

Environment-friendly Clean Engine Mounted
The PC1250-8, which is equipped with the Komatsu SAA6D170E-5 engine, meets the Tier 3 emission certified in North America (EPA) and EU stage 3A. The SAA6D170E-5 engine adopts the world's first cooled EGR system with electronically controlled bypass-assist type venturi. NOx emission is reduced 40%, while maintaining high power and low fuel consumption.



This is an image photo: may differ from the actual engine.



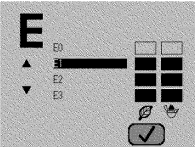
Electronically Controlled Variable Speed Fan Contributes to Low Fuel Consumption and Low Noise

The electronic control system sets the rotational speed of the cooling fan according to the coolant, hydraulic oil, and ambient temperature; effectively uses the engine output to prevent wasteful fuel consumption; and reduces noise during low-speed fan rotation.



Lower and Economical Fuel Consumption Using Economy Mode

Enables operator to set the Eco mode to up to four levels according to working conditions so that production requirement is achieved at lowest possible fuel consumption.



Reduction of Ambient Noise

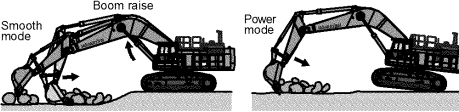
Reduced noise by adoption of an electronically controlled variable speed fan drive, large hybrid fan, low-noise muffler and cover with glasswool. Komatsu will launch PC1250 with lower-noise specifications to the EU market.

Large Digging Force
Thanks to the high engine output and an excellent hydraulic system, this machine demonstrates powerful digging force.

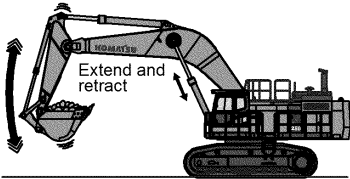
Maximum arm crowd force (ISO):
412 kN 42.0 ton
Maximum bucket digging force (ISO):
479 kN 48.8 ton

Large Drawbar Pull and Steering Force
Since the machine has a large drawbar pull and a high steering force, it demonstrates excellent mobility even when it is being used on inclined sites.

Two-mode Setting for Boom
Smooth mode provides easy operation for gathering blasted rock and scraping operations. When maximum digging force is needed, switch to **power mode** for more effective excavating.



Shockless Boom Control
The PC1250-8 boom circuit features a shockless valve (double-check slow return valve) to automatically reduces the amount of vibration present when operating the boom. Operator fatigue is reduced (which can improve safety and productivity), and spillage caused by vibration is minimized.



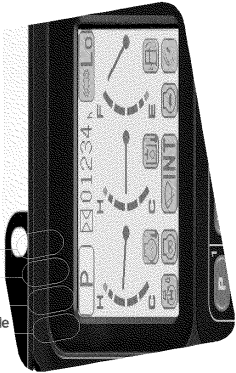
Working Mode Selection

Power and Economy Mode
The PC1250 excavator is equipped with two working modes. Each mode is designed to match engine speed, pump flow, and system pressure to the current application, giving the operator flexibility to match equipment performance to the job at hand.

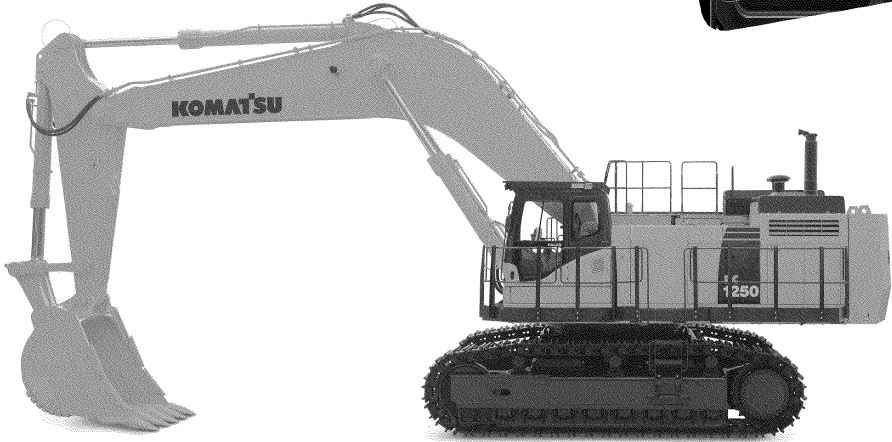
Working Mode	Application	Advantage
P	Power Mode	● Maximum production/power ● Fast cycle time
E (E0,E1,E2,E3)	Economy Mode	● Good cycle time ● Good fuel economy

Heavy Lift Mode
Gives the operator 10% more lifting force on the boom when needed for handling rock or heavy lifting applications.

Swing Priority Setting
The swing priority setting allows the operator to use the same easy motion for 180° loading as 90° loading operations. By altering the oil flow, this setting allows you to select either boom or swing as the priority for increased production.



Power Mode
Economy Mode
Heavy Lift Mode
Swing Priority Mode

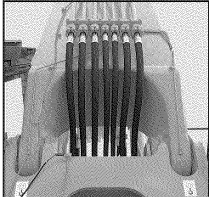


RELIABILITY FEATURES

Excellent Reliability and Durability

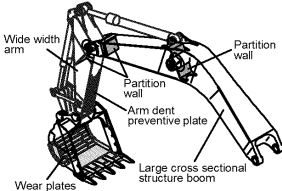
Boom Foot Hoses

The boom foot hoses are arranged under the boom foot to reduce hose bend during operation, extending hose life and improving operator safety.



Strengthened Boom and Arm

Thanks to the large cross-sectional structure employing a high tensile strength steel with a thick plate, partition wall, etc., the boom and arm exhibit excellent durability and are highly resistant to bending and torsional stress.

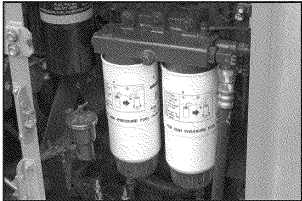


O-ring Face Seal

The hydraulic hose seal method has been changed from a conventional taper seal to an O-ring seal. This provides improved sealing performance during operation.

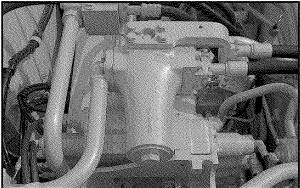
Fuel Pre-filter (with Water Separator)

Removes water and contaminants from fuel to enhance the fuel system reliability.



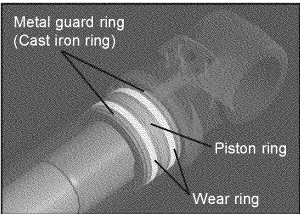
High-pressure In-line Filtration

The PC1250-8 has the most extensive filtration system available, providing in-line filters as standard equipment. An in-line filter in the outlet port of each main hydraulic pump reduces failures caused by contamination.



Metal Guard Rings

Metal guard rings protect all the hydraulic cylinders and improve reliability.

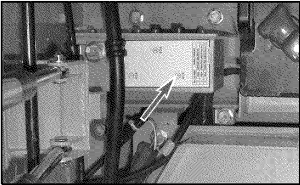


Heat-resistant Wiring

Heat-resistant wiring is utilized for the engine electric circuit and other major component circuit.

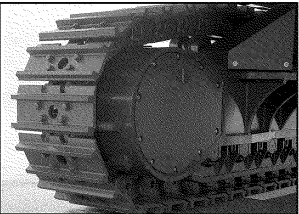
Circuit Breaker

With circuit breaker, the machine can be easily restarted after repair.

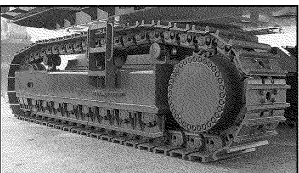


Sturdy Undercarriage

The undercarriage is strengthened to provide excellent reliability and durability when working on rocky ground or blasted rock.



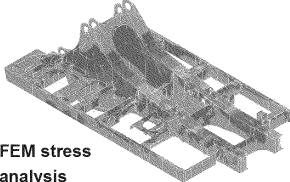
Sturdy guards shield the travel motors and piping against damage from rocks.



Track roller guard (full length) (optional)

Tough strengthened frame structure

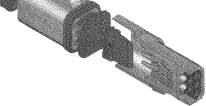
Strengthened revolving frame, center frame and crawler frame endure heavy-duty works and exhibit their excellent durability.



FEM stress analysis

DT-type Connectors

DT-type connectors seal tight and have higher reliability.



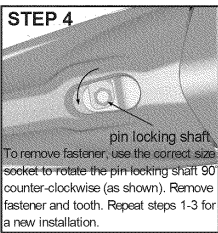
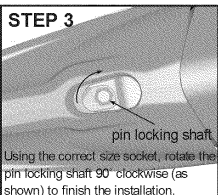
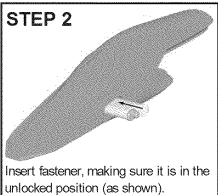
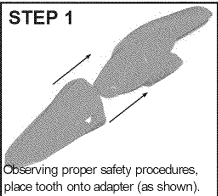
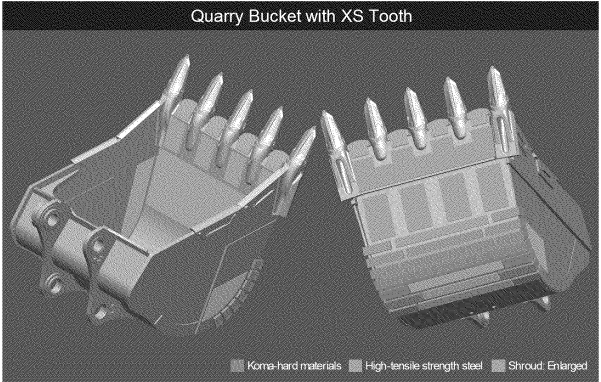
Strengthened Quarry Bucket Provided Outstanding Wear-resistance (optional)

The bucket for specific use in quarry is impact and wear resistant, providing high performance and long life. Koma-hard materials* provide excellent wear resistance. Combined with adoption of long-life XS teeth, durability of bucket is drastically enhanced.

* Koma-hard materials (KVX materials):
Komatsu developed, wear-resistant, reinforced materials.
Brinell hardness: 500 or more (180kgf/mm² class).
Features high wear-resistance and little quality change from the heat generated during rock loading, maintaining long term hardness.

XS Tooth

- Unique bucket tooth shape, superior digging performance
- Long-term high sharpness
- Great penetration performance
- Hammerless, safe, and easy tooth replacement (Tooth replacement time: Halves the conventional machine.)



WORKING ENVIRONMENT

The cab interior is spacious and provides a comfortable working environment...

Large Comfortable Cab

Comfortable Cab
New PC1250-8's cab offers an exceptionally comfortable operating environment. The large cab enables full flat reclining of the seat back with headrest.

Pressurized Cab
The optional air conditioner, air filter and a higher internal air pressure (6.0 mm Aq 0.2" in Aq) prevent external dust from entering the cab.

Low Noise Design
Noise level is remarkably reduced, not only engine noise but also swing and hydraulic relief noise.

Low Vibration with Cab Damper Mounting
PC1250-8 uses a new, improved cab damper mount system that incorporates longer stroke and the addition of a spring. The new cab damper mounting combined with a strengthened left and right side deck, aids vibration reduction at the operator's seat.

Vibration at floor is reduced from 120 dB (VL) to 115 dB (VL).
dB (VL) is index for expressing size of vibration.

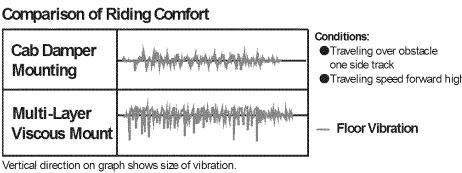
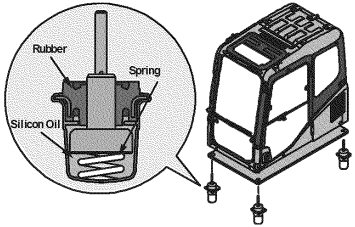


Photo may include optional equipment.

Automatic Air Conditioner (optional)

A 6,900 kcal air conditioner is utilized. The bi-level control function keeps the operator's head and feet cool and warm respectively. This improved air flow function keeps the inside of the cab comfortable throughout the year.



Washable Cab Floormat
The PC1250-8's cab floormat is easy to keep clean. The gently inclined surface has a flanged floormat and drainage holes to facilitate runoff.



Seat with headrest reclined full flat

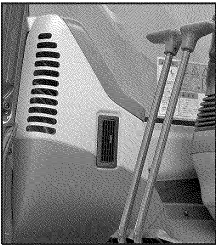
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Multi-position Controls

The multi-position, PPC (proportional pressure control) levers allow the operator to work in comfort while maintaining precise control. A double-slide mechanism allows the seat and control levers to move together or independently, allowing the operator to position the controls for maximum productivity and comfort.



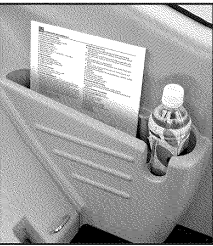
Seat Sliding Amount: 340 mm 13.4", Increased 120 mm 4.7"



Defroster (optional)



Cab Frame Mounted Wiper



Bottle Holder and Magazine Rack

Safety Features

Step light with timer provides light for about one minute to allow the operator to get off the machine safely.



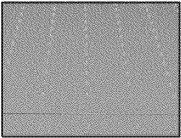
Pump/engine room partition prevents oil from spraying on the engine if a hydraulic hose should burst.



Thermal and fan guards are placed around high-temperature parts of the engine and fan drive.

Anti-slip Plates

Spiked plates on working surfaces provide anti-slip performance.



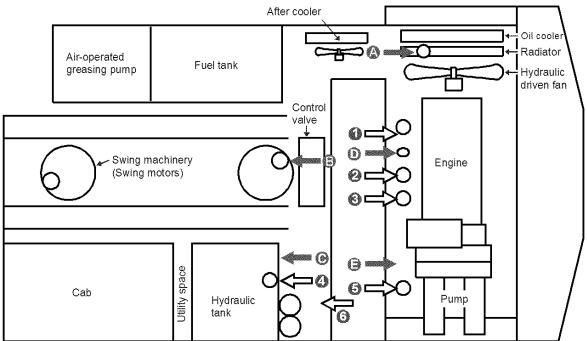
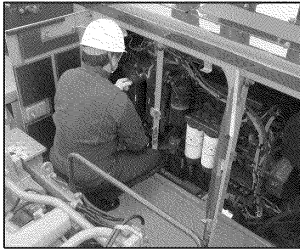
Anti-Slip Plates

Horn interconnected with warning light (optional) give visual and audible notice of the excavator's operation when activated.

EASY MAINTENANCE FEATURES

Komatsu Designed the PC1250-8 for Easy Service Access.

Easy Checking and Maintenance
Wide center walkway provides easy access to many inspection and maintenance points. In addition, inspection and maintenance points are grouped to facilitate easy engine and hydraulic component checks.

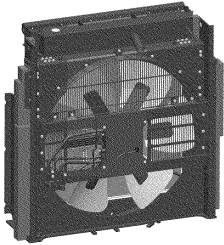


- | | | |
|-------------------|----------------------|--------------------------|
| A Coolant | 1 Corrosion resistor | 4 Hydraulic drain filter |
| B Swing machinery | 2 Fuel filter | 5 Pilot filter |
| C Hydraulic tank | 3 Engine oil filter | 6 Return filter |
| D Engine oil | | |
| E PTO case | | |

Wide Catwalk, Large Step and Handrails
Easier, safer operator cab access and maintenance checks.



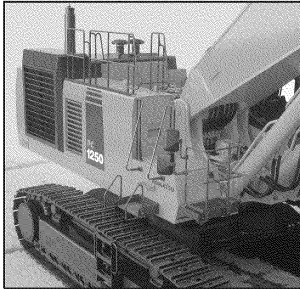
Easy Cleaning of Radiator
The hydraulically driven fan can be reversed to facilitate cleaning of the cooling unit. In addition, this feature contributes to reducing warm-up time in low temperatures.



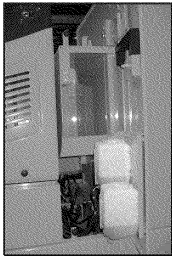
Reduced Maintenance Costs
Hydraulic oil filter replacement is extended from 500 to 1000 hours.



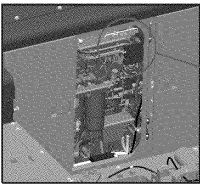
Dust Indicator
5-step Indicator
Informs of air cleaner clogging in 5 steps to warn of filter condition.



Convenient Utility Space
Utility space provides great convenience to store tools, spare parts, etc.



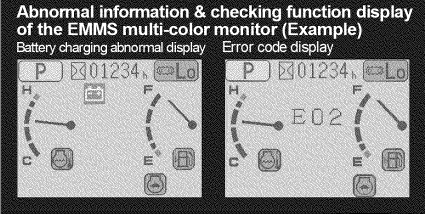
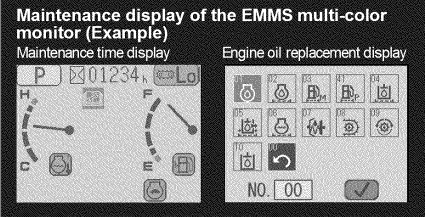
Electric priming pump
Reduces time for hydraulic system priming



Electric priming pump switch

High-Quality EMMS Self-diagnostic System

- **Abnormality Checking Function**
If any abnormality should occur, the monitoring system checks whether hydraulic pressures, solenoid ON/OFF status, engine speed, electrical connections, etc. are within normal condition to keep machine downtime to a minimum.
- **Maintenance History Memory Function**
Maintenance records such as replacement of engine oil, hydraulic oil, filters, etc. can be stored. Operator is warned when service is due.
- **Trouble Data Memory Function**
Trouble data is stored to serve as references for future trouble-shooting. Error codes are displayed to aid in service diagnosis.



VHMS (Vehicle Health Monitoring System) (optional)
VHMS controller monitors the health conditions of major components and enables remote analysis of the machine and its operation. This process is supported by the Komatsu distributors, factory and design team. This contributes to reduced repair costs and to maintaining maximum availability.

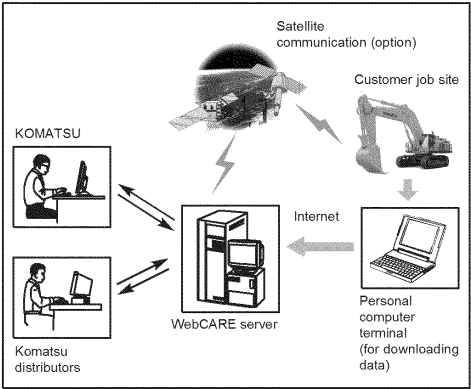


Photo may include optional equipment.

SPECIFICATIONS



ENGINE

Model Komatsu SAA6D170E-5
Type 4-cycle, water-cooled, direct injection
Aspiration Turbocharged, aftercooled, cooled EGR
Number of cylinders 6
Bore 170 mm 6.69"
Stroke 170 mm 6.69"
Piston displacement 23.15 ltr 1413 in³
Governor All-speed, electronic
Horsepower:
SAE J1995 Gross 514 kW 688 HP
ISO 9249 / SAE J1349* Net 502 kW 672 HP
Rated rpm 1800 rpm
Fan drive type Hydraulic

EPATier 3 and EU stage 3A emission certified.
*Net horsepower at the maximum speed of radiator cooling fan is 463 kW 620HP.



HYDRAULICSYSTEM

Type. Open-center load-sensing system
Number of selectable working modes 2

Main pump:

Type. Variable-capacity piston pumps
Pumps for. Boom, arm, bucket, swing, and travel circuits

Maximum flow:
For implement and travel. 2 x 494 ltr/min 2 x 130.5 U.S. gpm
For swing 1 x 600 ltr/min 1 x 158.5 U.S. gpm

Sub-pump for control circuit. Gear pump

Hydraulic motors:

Travel. 2 x axial piston motors with parking brake
Swing 2 x axial piston motors with swing holding brake

Relief valve setting:

Implement circuits
Backhoe 31.4 MPa 320 kgf/cm² 4,550 psi
Loading shovel 31.4 MPa 320 kgf/cm² 4,550 psi
Travel circuit 34.3 MPa 350 kgf/cm² 4,980 psi
Swing circuit 27.5 MPa 280 kgf/cm² 3,980 psi
Pilot circuit. 2.9 MPa 30 kgf/cm² 430 psi

Hydraulic cylinders:

Number of cylinders—bore x stroke

Backhoe
Boom. 2 – 225 mm x 2390 mm 8.9" x 94.1"
Arm. 1 – 250 mm x 2435 mm 9.8" x 95.9"
Bucket
Std 2 – 160 mm x 1825 mm 6.3" x 71.8"
SP. 2 – 160 mm x 1950 mm 6.3" x 76.8"
Loading shovel
Boom. 2 – 225 mm x 1960 mm 8.9" x 77.2"
Arm. 2 – 185 mm x 1765 mm 7.3" x 69.5"
Bucket. 2 – 200 mm x 1700 mm 7.9" x 66.9"
Bottom dump. 2 – 160 mm x 435 mm 6.3" x 17.1"



SWINGSYSTEM

Driven by Hydraulic motors
Swing reduction Planetary gear
Swing circle lubrication Grease-bathed
Swing lock. Oil disc brake
Swing speed. 5.8 rpm



DRIVESANDBRAKES

Steering control Two levers with pedals
Drive method. Fully hydrostatic
Travel motor. Axial piston motor, in-shoe design
Reduction system Planetary double reduction
Maximum drawbar pull 686 kN 70000 kgf 154,320 lb
Gradeability. 70%
Maximum travel speed
Low. 2.1 km/h 1.3 mph
High 3.2 km/h 2.0 mph
Service brake Hydraulic lock



UNDERCARRIAGE

Center frame H-leg frame
Track frame Box-section
Seal of track Sealed
Track adjuster Hydraulic
No. of shoes. 48 each side
No. of carrier rollers 3 each side
No. of track rollers. 8 each side



COOLANTANDLUBRICANTCAPACITY (REFILLING)

Fuel tank 1360 ltr 359.3 U.S. gal
Radiator. 142 ltr 37.5 U.S. gal
Engine. 86 ltr 22.7 U.S. gal
Final drive, each side. 21 ltr 5.5 U.S. gal
Swing drive 20 x 2 ltr 5.3 x 2 U.S. gal
Hydraulic tank 670 ltr 177.0 U.S. gal
PTO 13.5 ltr 3.7 U.S. gal



OPERATINGWEIGHT (APPROXIMATE)

BACKHOE

PC1250-8: Operating weight, including 9100 mm 29'10" boom, 3400 mm 11'2" arm, SAE heaped 5.0 m³ 6.5 yd³ backhoe bucket, operator, lubricant, coolant, full fuel tank, and the standard equipment.

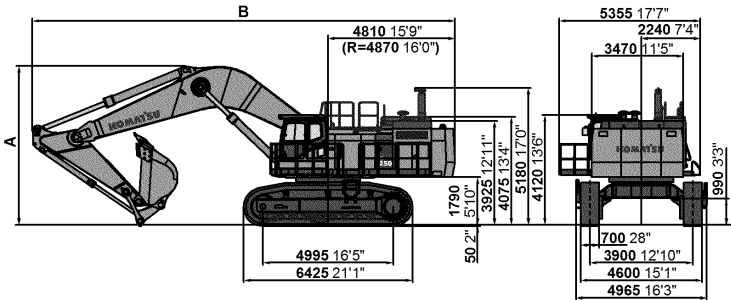
PC1250SP-8: Operating weight, including 7800 mm 25'7" boom, 3400 mm 11'2" arm, SAE heaped 6.7 m³ 8.8 yd³ backhoe bucket, full length roller guard, operator, lubricant, coolant, full fuel tank, and the standard equipment.

	PC1250-8		PC1250SP-8	
	Operating Weight	Ground Pressure	Operating Weight	Ground Pressure
Shoes				
Double grouser 700 mm 28"	106500 kg 234,790 lb	136 kPa 1.39 kgf/cm² 19.8 psi	110700 kg 244,050 lb	141 kPa 1.44 kgf/cm² 20.4 psi
Double grouser 1000 mm 39.4"	108810 kg 239,880 lb	97 kPa 0.99 kgf/cm² 14.1 psi	—	—

LOADING SHOVEL

Operating weight, including 5300 mm 17'5" boom, 3800 mm 12'6" arm, 6.5 m³ 8.5 yd³ heaped bucket, operator, lubricants, coolant, full fuel tank and standard equipment.

Shoes	PC1250-8	
	Operating Weight	Ground Pressure
Double grouser 700 mm 28"	110900 kg 244,490 lb	142 kPa 1.45 kg/cm² 20.6 psi

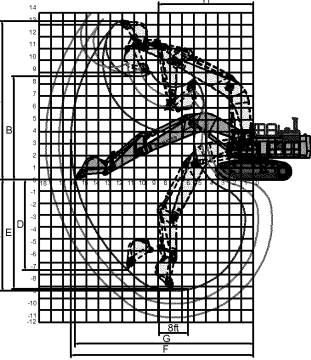


	PC1250-8			PC1250SP-8	
	9.1 m 29'10" boom			7.8 m 25'7" boom	
	3.4 m 11'2" arm	4.5 m 14'9" arm	5.7 m 18'8" arm	3.4 m 11'2" arm	
A Overall Height	6040 mm 19'10"	6460 mm 21'2"	6990 mm 22'11"	6265 mm 20'7"	
B Overall Length	16020 mm 52'7"	16050 mm 52'8"	15840 mm 52'0"	14790 mm 48'6"	



WORKINGRANGE

Unit: mm ft in

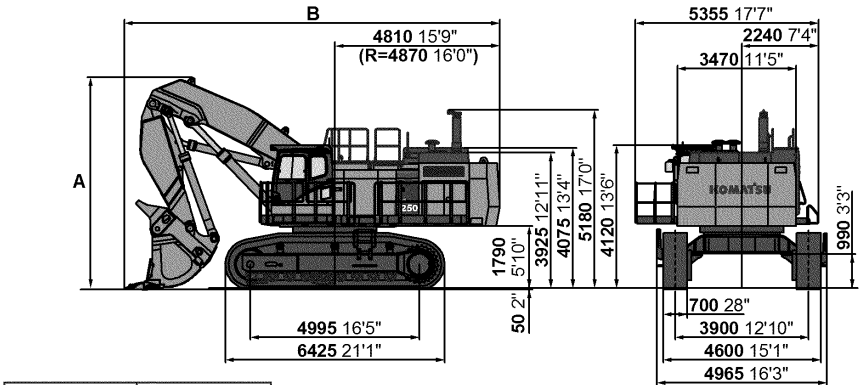


	PC1250-8			PC1250SP-8	
	9.1 m 29'10" boom			7.8 m 25'7" boom	
	3.4 m 11'2" arm	4.5 m 14'9" arm	5.7 m 18'8" arm	3.4 m 11'2" arm	
A Max. digging height	13400 mm 44'0"	13490 mm 44'3"	13910 mm 45'8"	13000 mm 42'8"	
B Max. dumping height	8680 mm 28'6"	9000 mm 29'6"	9440 mm 31'0"	8450 mm 27'9"	
C Max. digging depth	9350 mm 30'8"	10440 mm 34'3"	11590 mm 38'0"	7900 mm 25'11"	
D Max. vertical wall digging depth	7610 mm 25'0"	8490 mm 27'10"	9480 mm 31'1"	5025 mm 16'6"	
E Max. digging depth of cut for 8° level	9220 mm 30'3"	10340 mm 33'11"	11500 mm 37'9"	7745 mm 25'5"	
F Max. digging reach	16350 mm 50'4"	16340 mm 53'7"	17450 mm 57'3"	14070 mm 46'2"	
G Max. digging reach at ground level	15000 mm 49'3"	16000 mm 52'6"	17130 mm 56'2"	13670 mm 44'10"	
H Min. swing radius	7965 mm 26'2"	7990 mm 26'3"	8150 mm 26'9"	6415 mm 21'1"	
Bucket digging force (SAE)	422 kN 43000 kgf / 94,800 lb	422 kN 43000 kgf / 94,800 lb	343 kN 35000 kgf / 77,160 lb	502 kN 51200 kgf / 112,900 lb	
Arm crowd force (SAE)	382 kN 40000 kgf / 88,180 lb	327 kN 33300 kgf / 73,410 lb	281 kN 28700 kgf / 63,270 lb	395 kN 40300 kgf / 88,860 lb	
Bucket digging force (ISO)	479 kN 48800 kgf / 107,590 lb	479 kN 48800 kgf / 107,590 lb	389 kN 39700 kgf / 87,520 lb	570 kN 58100 kgf / 128,110 lb	
Arm crowd force (ISO)	412 kN 42000 kgf / 92,590 lb	337 kN 34400 kgf / 75,840 lb	286 kN 29200 kgf / 64,375 lb	412 kN 42000 kgf / 92,590 lb	



BUCKET CAPACITY (HEAPED)		WIDTH		WEIGHT (with side cutters) m kg ft lb	ARM LENGTH m ft in		
SAE, PCSA m ³ yd ³	CECE m ³ yd ³	Without Side cutters or shrouds mm in	With Side cutters or shrouds mm in				
PC1250-8 (use with 9.1 m boom)					3.4 11'2"	4.5 14'9"	5.7 18'8"
3.4 4.4	3.0 3.9	1500 49'3"	1670 55'7"	3600 7,940	□ □ □ □	□ □ □ □	□ □ □ □
4.0 5.2	3.3 4.3	1710 56'1"	1880 61'6"	3800 8,380			
5.0 6.5	4.3 5.6	2050 60.7"	2220 87.4"	4400 9,700			
5.2 6.8	4.5 5.9	2050 60.7"	2110 83.1"	5100 11,240			
PC1250SP-8 (use with 7.8 m boom)				3.4 11'2"			
6.7 8.8	5.9 7.7	2280 69.8"	2340 92.1"	6300 13,890	□	—	—

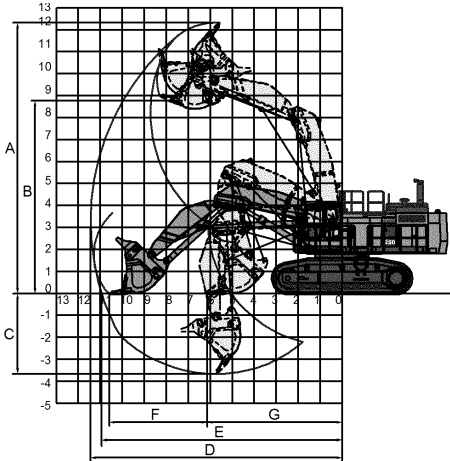
These charts are based on over-side stability with fully loaded bucket at maximum reach.
□ : General purpose use, density up to 2.1 t/m³ 3,500 lb/yd³ □ : General purpose use, density up to 1.8 t/m³ 3,000 lb/yd³
| : General purpose use, density up to 1.5 t/m³ 2,500 lb/yd³ —: Not useable



Type of bucket	Bottom dump
Capacity-heaped	6.5 m ³ 8.5 yd ³
A Overall Height	6200 mm 20'4"
B Overall Length	10940 mm 35'11"



LOADING SHOVEL WORKING RANGE AND BUCKET SELECTION



Working Range

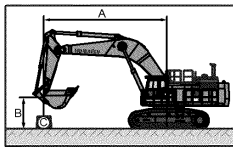
Type of bucket	Bottom dump
Capacity-heaped	6.5 m ³ 8.5 yd ³
A Max. cutting height	12330 mm 40'5"
B Max. dumping height	8700 mm 28'7"
C Max. digging depth	3650 mm 12'0"
D Max. digging reach	11400 mm 37'5"
E Max. digging reach at ground level	10900 mm 35'9"
F Level crowding distance	4480 mm 14'8"
G Min. crowd distance	6130 mm 20'1"
Bucket digging force	579 kN 59000 kgf / 130,100 lb
Arm crowd force	608 kN 62000 kgf / 136,710 lb

Bucket Selection

Type of bucket	Bottom dump
Capacity-heaped	6.5 m ³ 8.5 yd ³
Width (with side shrouds)	2700 mm 106.3"
Weight	9730 kg 21,450 lb
No. of bucket teeth	6
Recommended uses	General-purpose digging and loading



LIFTING CAPACITY



PC1250-8

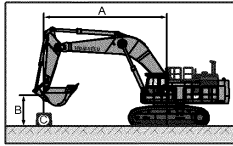
- Equipment:
- Boom: 9.1 m 29'10"
 - Arm: 3.4 m 11'2"
 - Bucket: 5.0 m³ 6.5 yd³
 - Bucket weight: 4400 kg 9700 lb
 - Track shoe width: 700 mm 28"

- A: Reach from swing center
B: Bucket hook height
C: Lifting capacity
Cf: Rating over front
Cs: Rating over side
● Rating at maximum reach

Unit: kg lb

B	A	Maximum		12.2 m 40'		10.7 m 35'		9.1 m 30'		7.6 m 25'		6.1 m 20'		4.6 m 15'	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Heavy Lift Q ₁	9.1 m 30'	*15200	*15200			*18000	*18000								
	6.1 m 20'	*15950	13200			*20050	17400	*22950	*22950	*27900	*27900				
	3.0 m 10'	15650	11850	16400	12500	20850	16100	27000	20850	*34950	27650				
	0.0 m 0'	16250	12300			19950	15200	24200	18200	34400	26100				
	-3.0 m -10'	19950	15250			20000	15250	25600	19550	34600	26300	*43850	38400	*39250	*39250
	-6.1 m -20'	*23500	*23500							*25400	*25400	*32550	*32550		
Heavy Lift Q ₂	9.1 m 30'	*15200	*15200			*15500	*15500								
	6.1 m 20'	*15850	13200			*17300	*17300	*19950	*19950	*24400	*24400				
	3.0 m 10'	15650	11850	16400	12500	*19800	16100	*23900	20850	*30550	27650				
	0.0 m 0'	16250	12300			19950	15200	24200	18200	*32650	26100				
	-3.0 m -10'	*19600	15250			*19650	15250	*24750	19550	*30750	26300	*38350	*38350	*39250	*39250
	-6.1 m -20'	*20150	*20150			*43,300	33,700	*54,600	43,100	*21900	*21900	*28150	*28150		

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.



PC1250-8

- Equipment:
- Boom: 9.1 m 29'10"
 - Arm: 4.5 m 14'9"
 - Bucket: 4.0 m³ 5.2 yd³
 - Bucket weight: 3800 kg 8380 lb
 - Track shoe width: 700 mm 28"

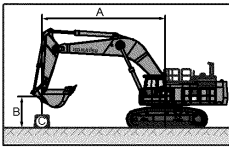
- A: Reach from swing center
B: Bucket hook height
C: Lifting capacity
Cf: Rating over front
Cs: Rating over side
● Rating at maximum reach

Unit: kg lb

B	A	Maximum		12.2 m 40'		10.7 m 35'		9.1 m 30'		7.6 m 25'		6.1 m 20'		4.6 m 15'	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Heavy Lift Q ₁	9.1 m 30'	*9300	*9300												
	6.1 m 20'	*21,300	*21,300												
	3.0 m 10'	*10950	10200	16650	12750	21200	16400	*25600	21300	*32350	28500				
	0.0 m 0'	*13650	10400	15850	11950	19900	15150	24550	18500	34450	26100	*29300	*29300		
	-3.0 m -10'	16400	12400			19550	14800	25100	19050	34000	25700	*46350	37500	*31900	*31900
	-6.1 m -20'	*21750	18700						20000	*28850	25200	*38200	*38200	*48900	*48900
Heavy Lift Q ₂	9.1 m 30'	*9300	*9300												
	6.1 m 20'	*9650	*9650	*14250	13700	*15600	*15600	*17850	*17850						
	3.0 m 10'	*10950	10200	*16050	12750	*18500	16400	*22250	21300	*28250	*28250				
	0.0 m 0'	*13650	10400	15850	11950	19900	15150	*24200	18500	*31950	26100	*29300	*29300		
	-3.0 m -10'	16400	12400			19550	14800	25100	19050	*31650	25700	*40550	37500	*31900	*31900
	-6.1 m -20'	*18650	18650						*20300	20000	*24800	24800	*33200	*33200	*42600

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

kg lb LIFTINGCAPACITY



PC1250-8

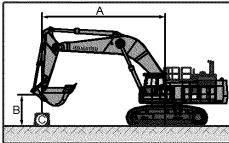
- Equipment:
- Boom: 9.1 m 29'10"
 - Arm: 5.7 m 18'8"
 - Bucket: 3.4 m³ 4.4 yd³
 - Bucket weight: 3600 kg 7940 lb
 - Track shoe width: 700 mm 28"

- A: Reach from swing center
B: Bucket hook height
C: Lifting capacity
Cf: Rating over front
Cs: Rating over side
⊕: Rating at maximum reach

Unit: kg lb

	A	⊕ Maximum		13.7 m 45'		12.2 m 40'		10.7 m 35'		9.1 m 30'		7.6 m 25'		6.1 m 20'	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Heavy Lift Ch	9.1 m 30'	*5900 *13,000	*5900 *13,000												
	6.1 m 20'	*6050 *13,400	*6050 *13,400	*11050 *24,300	10950 24,100	*14950 *32,900	14350 31,600								
	3.0 m 10'	*6800 *15,000	*6800 *15,000	13550 29,900	10250 22,600	17050 37,600	13100 28,900	*19800 *43,700	16900 37,200	*23450 *51,700	22050 48,600	*29300 *64,600	*29300 *64,600	*39750 *87,600	*39750 *87,600
	0.0 m 0'	*8400 *18,500	*8400 *18,500	12850 28,400	9600 21,100	15950 35,200	12050 26,600	20,100 44,300	15300 33,800	25900 57,100	19800 43,600	34800 76,700	26450 58,300	*31200 *68,800	*31200 *68,800
	-3.0 m -10'	*11500 *25,400	10150 22,400			15500 34,100	11600 25,600	19300 42,600	14600 32,100	24850 54,800	18800 41,500	33600 74,100	25300 55,800	*47600 *105,000	36800 81,100
	-6.1 m -20'	18600 41,000	14100 31,100					19750 43,500	15000 33,000	25200 55,600	19150 42,200	*33250 *73,300	25850 56,900	*42350 *93,300	37850 83,400
Heavy Lift Cr	9.1 m 30'	*5900 *13000	*5900 *13000												
	6.1 m 20'	*6050 *13,400	*6050 *13,400	*11050 *24,300	10950 24,100	*12700 *28,000	*12700 *28,000								
	3.0 m 10'	*6800 *15,000	*6800 *15,000	*13350 *29,500	10250 22,600	*14850 *32,800	13100 28,900	*17050 *37,600	16900 28,900	*20300 *44,800	*20300 *44,800	*25550 *56,300	*25550 *56,300	*34850 *76,800	*34850 *76,800
	0.0 m 0'	*8400 *18,500	*8400 *18,500	12850 28,400	9600 21,100	15950 35,200	12050 26,600	*19700 *43,400	15300 33,800	*24000 *53,000	19800 43,600	*30600 *67,500	26450 58,300	*31200 *68,800	*31200 *68,800
	-3.0 m -10'	*11500 *25,400	10150 22,400			15500 34,100	11600 25,600	19300 42,600	14600 32,100	24850 54,800	18800 41,500	*31900 *70,300	25300 55,800	*41650 *91,800	36600 81,100
	-6.1 m -20'	*16550 *36,500	14100 31,100					*18050 *39,800	15000 33,000	*22950 *50,600	19150 42,200	*28850 *63,600	25850 56,900	*36900 *81,300	*36900 *81,300

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.



PC1250SP-8

- Equipment:
- Boom: 7.8 m 25'7"
 - Arm: 3.4 m 11'2"
 - Bucket: 6.7 m³ 8.8 yd³
 - Bucket weight: 6300 kg 13890 lb
 - Track shoe width: 700 mm 28"

- A: Reach from swing center
B: Bucket hook height
C: Lifting capacity
Cf: Rating over front
Cs: Rating over side
⊕: Rating at maximum reach

Unit: kg lb

	A	⊕ Maximum		12.2 m 40'		10.7 m 35'		9.1 m 30'		7.6 m 25'		6.1 m 20'		4.6 m 15'	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Heavy Lift Ch	9.1 m 30'	*11700 *25,800	*11700 *25,800					*17050 *37,600	*17050 *37,600						
	6.1 m 20'	*12250 *27,000	*12250 *27,000			*16300 *35,900	16100 35,600	*24350 *53,700	22600 49,800	*28750 *63,400	*28750 *63,400	*36350 *80,100	*36350 *80,100		
	3.0 m 10'	*14600 *32,200	13700 30,200			20150 44,400	15300 33,800	26950 59,500	20750 45,700	*33850 *74,700	27000 59,600	*47450 *104,600	41150 90,700		
	0.0 m 0'	19300 42,600	14550 32,000			19400 42,800	14600 32,200	25600 56,400	19450 42,900	31750 70,000	23500 51,800	*48750 *107,500	38650 85,200		
	-3.0 m -10'	*23900 *52,700	19550 43,100					*23950 *52,900	19550 43,100	*30750 *67,800	24850 54,800	*41450 *91,300	39,250 86,500	*52450 *115,700	*52450 *115,700
	-6.1 m -20'														
Heavy Lift Cr	9.1 m 30'	*11700 *25,800	*11700 *25,800					*17050 *37,600	*17050 *37,600						
	6.1 m 20'	*12250 *27,000	*12250 *27,000			*16300 *35,900	16100 35,600	*21150 *46,600	*21150 *46,600	*25150 *55,500	*25150 *55,500	*32100 *70,800	*32100 *70,800		
	3.0 m 10'	*14600 *32,200	13700 30,200			20150 44,400	15300 33,800	*24450 *54,000	20750 45,700	*29450 *65,000	27000 59,600	*41750 *92,000	41150 90,700		
	0.0 m 0'	19300 42,600	14550 32,000			19400 42,800	14600 32,200	25600 56,400	19450 42,900	*29900 *65,900	23500 51,800	*42750 *94,300	38650 85,200		
	-3.0 m -10'	*20500 *45,200	19550 43,100					*20550 *45,300	19550 43,100	*26450 *58,300	24850 54,800	*36100 *79,600	*36100 *79,600	*45800 100,800	*45800 100,800
	-6.1 m -20'														

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

TRANSPORTATIONGUIDE

Transportation volume (length x height x width)

Specs shown include the following equipment:

Backhoe: boom 9100 mm 29'10", arm 3400 mm 11'2", bucket 5.0 m³ 6.5 yd³, shoes 700 mm 28" double grouser

Work equipment assembly (Backhoe)

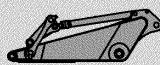
Weight : PC1250 : 25.3t 27.9U.S.ton
PC1250SP : 27.7t 30.5U.S.ton

Boom



PC1250 : 11.2t : 9475 x 2894 x 1474
12.3U.S.ton : 31'1" x 9'6" x 4'10"
PC1250SP : 11.1t : 8170 x 3095 x 1474
12.2U.S.ton : 26'10" x 10'2" x 4'10"

Arm



PC1250 : 5.9t : 4895 x 1626 x 890
6.5U.S.ton : 16'1" x 5'4" x 2'11"
6.2t : 4895 x 1626 x 890(Heavy-duty version)
6.8U.S.ton : 16'1" x 5'4" x 2'11"
PC1250SP : 6.4t : 4914 x 1683 x 890
7.1U.S.ton : 16'1" x 5'6" x 2'11"

Bucket



PC1250 : 4.3t : 2700 x 2100 x 2050
4.7U.S.ton : 8'10" x 6'11" x 6'9"
5.5t : 2580 x 2276 x 2250(Heavy-duty version)
6.1U.S.ton : 8'6" x 7'6" x 7'5"
PC1250SP : 6.3t : 2527 x 2420 x 2520
6.9U.S.ton : 8'3" x 7'11" x 8'3"

Arm cylinder

Length : 3950 13'0"

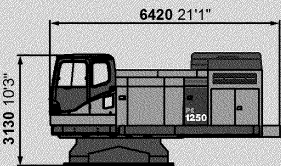
1.5t
1.7U.S.ton

Boom cylinder

Length: 3810 12'6"

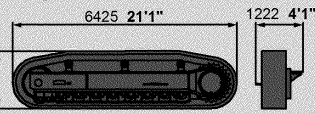
2.4t [1.2t x 2]
2.64U.S.ton [1.32U.S.ton x 2]

Upper structure



Width : 3490 11'5"
Weight : 36.4t 40.1U.S.ton

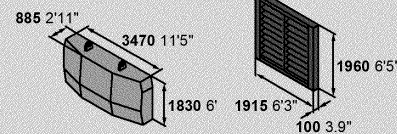
Undercarriage



Weight : 30t [15t x 2]
33.1U.S.ton [16.55U.S.ton x 2]
Weight : 30.9t [15.45t x 2](with full length roller guard)
34.1U.S.ton [17.05U.S.ton x 2]

Others

Weight : 18.4t 20.3U.S.ton



Weight : 18.0t 19.8U.S.ton

